

PDR RID Report

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Document PDR

RID ID	PDR	422
Review	SDPS	
Originator Ref	Ingest of V0	data
Priority	2	

Section

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Figure Table

Category Name V0 Data Migration

Actionee HAIS

Sub Category

Subject Ingest subsystem planning does not include V0 Migration

Description of Problem or Suggestion:

PDR briefing states that the V0 data migration has not been included in modeling of Ingest System. V0 data migration could conceivably swamp the ingest system.

Originator's Recommendation

HAIS must incorporate realistic V0 data migration requirements estimates into the ingest system modeling to ensure a properly sized ingest subsystem. V0 data migration plan must be demonstrated to not affect ingest of TRMM and AM-1 data.

GSFC Response by:

GSFC Response Date

HAIS Response by: Eisenstein

HAIS Schedule 5/22/95

HAIS R. E. P. Roycraft

HAIS Response Date 7/17/95

V0 Migration Facility processing capacity for migrating and converting Release A V0 data (e.g. conversion of V0 data and metadata to ECS standards) is included in the capacity estimates for the Release A backup Ingest Subsystem hardware. Also, storage space for Release A V0 data is included in the sizing estimates for the Release A Data Server Subsystem.

In the Release B time frame, the V0 Migration Facility could require additional processing resources. However, ECS has already specified a relatively large processing capacity for Release B based on early analysis. A refined assessment of required Release B resources will be reported at the IDR for Release B.

The following is a brief elaboration of these statements.

The migration and conversion of V0 data sets into ECS involves a Version 0 Migration Facility and both the Ingest and the Data Server Subsystems. The Version 0 Migration Facility handles all Version 0 data preprocessing (data formation conversions, derived metadata generation, etc.). The Version 0 Migration Facility is implemented either a) on the backup Ingest subsystem hardware (this is the nominal case); or b) on separate Version 0 Migration Facility hardware (if the need for such hardware is identified).

The migrated and converted V0 data will be transferred from the Version 0 Migration Facility and input to the ingest client s/w executing on the Data Server Subsystem hardware, i.e. the Data Server Access/Process Coordinator (APC) CPUs. After ingest and metadata checking, if any, the migrated V0 data are moved onto working storage, and from there into the data server repository. Note that the ingest client s/w can execute on either the ingest client host hardware or the Data Server Subsystem hardware. However, the ingest of data through the ingest client host hardware is generally limited to those cases requiring the higher RMA provided by the Ingest Subsystem configuration, such as EDOS and SDPF data ingest, as well as all Level 0 data from Ingest rolling storage.

The Data Server Subsystem design documented in ECS doc. 305-CD-002-002 is sized to accommodate the planned number of V0 data sets and data set volume to be migrated in the Release A time frame.

Status Closed

Date Closed 8/9/95

Sponsor Hunolt

Attachment if any
